

ABSTRACT OF THE DISCLOSURE

An image decoding apparatus comprises a decoder having a decoding data storage register for holding decoding data corresponding to a target VOP to be decoded, and decoding a video stream corresponding to the target VOP on the basis of the decoding data stored in the register; and a first memory having plural storage regions for holding decoding data corresponding to plural objects, wherein the decoding data are transferred between the decoding data storage register in the decoder and a specific storage region in the first memory. Therefore, it is possible to perform decoding on a video stream comprising plural objects by using a single decoder. Further, even when the number of objects to be decoded is increased, storage regions for decoding data corresponding to the increased objects can easily be increased.